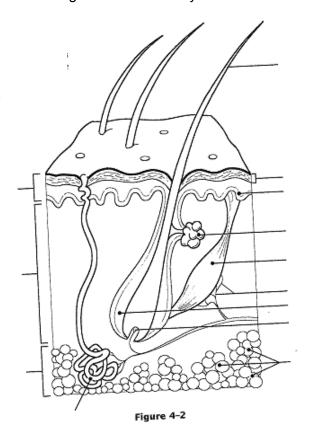
## **Unit 3/ Chapter 4 Practice – Integumentary System**

1. Using Figure 4-2, identify the following structures and layers:

Adipose tissue
Epidermis
Dermis
Subcutaneous tissue
Hair shaft
Stratum corneum
Stratum basale
Papilla of hair bulb
Sweat gland
Arrector pilli muscle
Sebaceous gland
Nerve fiber



<ol><li>Fill in the type of skin cancer that matches each of the following de</li></ol>	descriptions.
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 Epithelial cells, not in contact with the basement membrane, develop lesions; metastasize
 Cells of the lowest level of the epidermis invade the dermis and hypodermis; exposed areas developed ulcers; slow to metastasize
 Rare but often deadly cancer of pigment-producing cells

<sup>3.</sup> A man got his finger caught in a machine at the factory. The damage was less serious than expected, but nonetheless, the entire nail was torn from his right index finger. The parts lost were the body, root, bed, matrix, and cuticle of the nail. First define each of these parts. Then tell if this nail is likely to grow back.

A. Arrector pilli B. Cutaneous recepto	C. Hair r D. Hair follicle (s)	E. Sebaceous F. Sweat gland (apocrine)	G. Sweat gland (eccrine)
2. Tiny mo		llicles that pull the h	nair upright during fright or cold is called
4. A shear 5. A less i		al and connective to piration gland is the	
	found everywhere on the primarily consists of dea		alms of the hands, soles of the feet, and
8 bo	ecome more active at pul the heat-liberating appar tin contains bacteria-killir	perty.  atus of the body is together.	thethe descriptions. Answers may be
A. First-degree	burn B. Second	l-degree burn	C. Third-degree burn
1 Full-thick 2 Blisters f 3 Epiderma 4 Epiderma 5 Regener 6 Pain is a	ness burn; epidermal and orms al damage, redness, and al and some dermal dama ation impossible; requires bsent because nerve end	d dermal layers des some pain (usually age; pain; regenera s grafting lings in the area are	stroyed; skin is blanched  brief) ution is possible e destroyed
6. For each true stateme answer on the space pro	•	e statement, correc	ct the <u>underlined</u> word(s) and write your
	1. A saltwater so	olution is secreted b	by the <u>sebaceous</u> glands.
	nails, is <u>mela</u>	<u>.</u> <u>nin</u> .	ad epidermal structures, such as hair and cholesterol, and cell fragments.
	4. The externally	observable part of	f a hair is called the <u>root</u> .
	5. The epidermis	s provides mechani	cal strength to the skin.

4. Match the words below with the correct statements.

7. Using the key choices, choose all responses that apply to the following descriptions.

A. Stratum basale D. Stratum lucidum G. Reticular layer

B. Stratum corneum
C. Stratum granulosum
E. Stratum spinosum
H. Epidermis (as a whole)
F. Papillary layer
I. Dermis (as a whole)

1.	Layer containing sacs filled with fatty material or keratin subunits
2.	Dead cells
3.	The more superficial dermis layer
4.	Avascular region
5.	Major skin area where deriviatives (nail and hair) reside
6.	Epidermimal region exhibiting the most mitosis
7.	Most superficial epidermal layer
8.	Has abundant elastic and collagenic fibers
9.	Region where melanocytes are most likely to be found
10.	Accounts for most of the epidermis

8. Circle the term that **DOES NOT** below in each of the following groupings.

a. Reticular layer	Keratin	Dermal papillae	Fingerprints
b. Melanin	Freckle	Wart	Malignant carcinoma
c. Stratum corneum	Nail Matrix	Hair bulb	Stratum basale
d. Scent glands	Eccrine glands	Apocrine glands	Mammary Gland
e. Terminal hair	Vellus hair	Dark, coarse hair	Eyebrow hair
f. Sebaceous gland	Hair	Arrector pili	Epidermis

<sup>9.</sup> Both newborn and aged individuals have very little subcutaneous tissue. How does this affect their sensitivity to the cold? Explain your answer.